

WEST

Generate Collection

Search Results - Record(s) 1 through 10 of 18 returned.☐ 1. Document ID: US 6168934 B1

L2: Entry 1 of 18

File: USPT

Jan 2, 2001

US-PAT-NO: 6168934

DOCUMENT-IDENTIFIER: US 6168934 B1

TITLE: Oligosaccharide enzyme substrates and inhibitors: methods and compositions

DATE-ISSUED: January 2, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wong; Chi-Huey	San Diego	CA	N/A	N/A
Ichikawa; Yoshitaka	San Diego	CA	N/A	N/A
Shen; Gwo-Jenn	Carlsbad	CA	N/A	N/A

US-CL-CURRENT: 435/97; 435/100, 435/101, 435/183, 435/74, 435/85

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 2. Document ID: US 6143539 A

L2: Entry 2 of 18

File: USPT

Nov 7, 2000

US-PAT-NO: 6143539

DOCUMENT-IDENTIFIER: US 6143539 A

TITLE: UDP-glucose pyro phosphorylase enzymes from nonparasitic protozoa

DATE-ISSUED: November 7, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kiy; Thomas	Frankfurt	N/A	N/A	DEX
Elling; Lothar	Aachen	N/A	N/A	DEX
Kula; Maria Regina	Niederzier-Hambach	N/A	N/A	DEX

US-CL-CURRENT: 435/194; 435/258.1, 435/947

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 3. Document ID: US 6090605 A

L2: Entry 3 of 18

File: USPT

Jul 18, 2000

US-PAT-NO: 6090605

DOCUMENT-IDENTIFIER: US 6090605 A

TITLE: Purified porcine kidney L-fucose kinase

DATE-ISSUED: July 18, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Elbein; Alan D.	Little Rock	AR	N/A	N/A

US-CL-CURRENT: 435/194; 424/94.5, 424/94.61, 530/415, 530/416

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 4. Document ID: US 6040158 A

L2: Entry 4 of 18

File: USPT

Mar 21, 2000

US-PAT-NO: 6040158

DOCUMENT-IDENTIFIER: US 6040158 A

TITLE: Process for preparing sugar nucleotide

DATE-ISSUED: March 21, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Takenouchi; Kenji	Choshi	N/A	N/A	JPX
Hamamoto; Tomoki	Choshi	N/A	N/A	JPX
Noguchi; Toshitada	Choshi	N/A	N/A	JPX

US-CL-CURRENT: 435/89; 435/171, 435/255.1, 435/84, 435/85, 435/88, 435/92

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 5. Document ID: US 6036923 A

L2: Entry 5 of 18

File: USPT

Mar 14, 2000

US-PAT-NO: 6036923

DOCUMENT-IDENTIFIER: US 6036923 A

TITLE: Pressure cycling reactor and methods of controlling reactions using pressure

DATE-ISSUED: March 14, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Laugharn, Jr.; James A.	Winchester	MA	N/A	N/A
Dreier; Gustav H.	Jefferson	NY	N/A	N/A
Rudd; Edwin A.	Salem	NH	N/A	N/A
Green; David J.	Winchester	MA	N/A	N/A

US-CL-CURRENT: 422/82.13; 422/102, 422/103, 422/99, 435/6, 435/91.1, 435/91.2, 436/94, 536/23.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWOC	Draw Desc	Image
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☐ 6. Document ID: US 6033663 A

L2: Entry 6 of 18

File: USPT

Mar 7, 2000

US-PAT-NO: 6033663

DOCUMENT-IDENTIFIER: US 6033663 A

TITLE: Nucleic acids encoding GDP-Fucose pyrophosphorylase

DATE-ISSUED: March 7, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ketcham; Catherine M.	Encinitas	CA	N/A	N/A
Elbein; Alan D.	Little Rock	AR	N/A	N/A
Drake; Richard R.	Little Rock	AR	N/A	N/A
Pastuszak; Irena	Little Rock	AR	N/A	N/A

US-CL-CURRENT: 424/94.5; 435/194, 435/252.3, 435/320.1, 435/69.1, 530/350, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWOC	Draw Desc	Image
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☐ 7. Document ID: US 5866378 A

L2: Entry 7 of 18

File: USPT

Feb 2, 1999

US-PAT-NO: 5866378
DOCUMENT-IDENTIFIER: US 5866378 A

TITLE: Process for the synthesis of nucleotide-6-deoxy-D-xylo-4-hexuloses

DATE-ISSUED: February 2, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Marquardt; Ruediger	Frankfurt	N/A	N/A	DEX
Hoersch; Brigitte	Kriftel	N/A	N/A	DEX
Seiffert-Stoeriko; Andreas	Frankfurt	N/A	N/A	DEX
Stein; Andreas	Juelich	N/A	N/A	DEX
Zervosen; Astrid	Welkenraedt	N/A	N/A	BEX
Elling; Lothar	Aachen	N/A	N/A	DEX
Kula; Maria Regina	Niederzier-Hambach	N/A	N/A	DEX
Verseck; Stefan	Wuppertal	N/A	N/A	DEX
Distler; Juergen	Wuppertal	N/A	N/A	DEX
Piepersberg; Wolfgang	Wuppertal	N/A	N/A	DEX

US-CL-CURRENT: 435/105; 435/101, 435/174, 435/175, 435/180, 435/89, 435/90,
536/124, 536/22.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 8. Document ID: US 5824472 A

L2: Entry 8 of 18

File: USPT

Oct 20, 1998

US-PAT-NO: 5824472
DOCUMENT-IDENTIFIER: US 5824472 A

TITLE: Process for the synthesis of sugar nucleotides using recombinant-DNA methods

DATE-ISSUED: October 20, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Betlach; Michael R.	Boulder	CO	N/A	N/A
Doherty; Daniel H.	Boulder	CO	N/A	N/A
Vanderslice; Rebecca W.	Boulder	CO	N/A	N/A

US-CL-CURRENT: 435/6; 435/105, 435/252.3, 435/69.1, 536/23.7

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 9. Document ID: US 5770407 A

L2: Entry 9 of 18

File: USPT

Jun 23, 1998

US-PAT-NO: 5770407
DOCUMENT-IDENTIFIER: US 5770407 A

TITLE: Process for preparing nucleotide inhibitors of glycosyltransferases

DATE-ISSUED: June 23, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wong; Chi-Huey	Rancho Santa Fe	CA	N/A	N/A
Hayashi; Takashi	Fushimi-ku	N/A	N/A	JPX

US-CL-CURRENT: 435/89; 435/15, 536/55.3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	FIGS	Draw Desc	Image
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☐ 10. Document ID: JP 2000032982 A

L2: Entry 10 of 18

File: JPAB

Feb 2, 2000

PUB-NO: JP02000032982A
DOCUMENT-IDENTIFIER: JP 2000032982 A
TITLE: GENE SYSTEM FOR SYNTHESIS OF SUGAR NUCLEOTIDE

PUBN-DATE: February 2, 2000

INVENTOR-INFORMATION:

NAME	COUNTRY
BETLACH, MICHAEL R	N/A
DOHERTY, DANIEL H	N/A
VANDERSLICE, REBECCA W	N/A

INT-CL (IPC): C12N 15/09; C12N 1/21; C12P 19/30

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	FIGS	Draw Desc	Image
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Term	Documents
PYROPHOSPHORYLASS\$	0
PYROPHOSPHORYLAS.DWPI,EPAB,JPAB,USPT,PGPB.	1
PYROPHOSPHORYLASE.DWPI,EPAB,JPAB,USPT,PGPB.	267
PYROPHOSPHORYLASEAND.DWPI,EPAB,JPAB,USPT,PGPB.	1
PYROPHOSPHORYLASEIN.DWPI,EPAB,JPAB,USPT,PGPB.	1
PYROPHOSPHORYLASES.DWPI,EPAB,JPAB,USPT,PGPB.	27
PYROPHOSPHORYLASE-CATALYZED.DWPI,EPAB,JPAB,USPT,PGPB.	1
PYROPHOSPHORYLASE-CONTAINING.DWPI,EPAB,JPAB,USPT,PGPB.	1
PYROPHOSPHORYLASE-EC.DWPI,EPAB,JPAB,USPT,PGPB.	2
PYROPHOSPHORYLASE-GLC2.DWPI,EPAB,JPAB,USPT,PGPB.	1
(PYROPHOSPHORYLASS\$ SAME MANNOSS) .USPT,PGPB,JPAB,EPAB,DWPI.	18

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10

Documents, starting with Document:

11

Display Format:

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L2: Entry 2 of 18

File: USPT

Nov 7, 2000

DOCUMENT-IDENTIFIER: US 6143539 A

TITLE: UDP-glucose pyro phosphorylase enzymes from nonparasitic protozoa

ABPL:

The present invention relates to nucleotide-sugar-synthesizing enzymes (enzymes with nucleotidyltransferase or pyrophosphorylase activity) from nonparasitic protists, to a process for the preparation thereof and to the use thereof for preparing nucleotide-sugars. The enzymes according to the invention make possible or greatly simplify the enzymatic preparation of various nucleotide-sugars on the industrial scale from low-cost precursors. It is possible with the aid of the discovered enzymes to prepare, for example, GDP-fucose, GDP-mannose, UDP-glucose, UDP-glucosamine, UDP-galactose, UDP-galactosamine, UDP-N-acetylglucosamine and UDP-N-acetylgalactosamine in economic quantities.

BSPR:

The enzyme according to the invention preferably has the activities of a UDP-N-acetylgalactosamine pyrophosphorylase (UDP-GalNAc- pyrophosphorylase), UDP-N-acetylglucosamine pyrophosphorylase (EC No. 2.7.7.23), GDP-fucose pyrophosphorylase (EC No. 2.7.7.30), GTP-mannose-1-phosphate guanylttransferase (EC No. 2.7.7.13), UDP-glucose pyrophosphorylase (EC No. 2.7.7.9), a UTP-galactose-1-phosphate uridyltransferase (EC No. 2.7.7.10), a UTP-xylose-1-phosphate uridyltransferase (EC No. 2.7.7.11) or a nucleoside-triphosphate-hexose-1-phosphate nucleotidyltransferase (EC No. 2.7.7.28). EC numbers according to the Enzyme Nomenclature 1992, Academic Press, Inc., San Diego, New York, Boston.

WEST

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Search Results - Record(s) 11 through 18 of 18 returned.☒ **11. Document ID: WO 9627670 A2**

L2: Entry 11 of 18

File: EPAB

Sep 12, 1996

PUB-NO: WO009627670A2

DOCUMENT-IDENTIFIER: WO 9627670 A2

TITLE: ENZYMATIC PROCESS FOR PRODUCING GDP-ALPHA-D-MANNOSE, A GDP MANNOSE
PYROPHOSPHORYLASE AND PHOSPHOMANNOMUTASE SUITABLE FOR THAT PROCESS, THE EXTRACTION
OF THE SAID ENZYMES, AND AN ENZYME TEST

PUBN-DATE: September 12, 1996

INVENTOR-INFORMATION:

NAME

COUNTRY

RITTER, JOERG EBERHARD

DE

ELLING, LOTHAR

DE

KULA, MARIA-REGINA

DE

VERSECK, STEFAN

DE

INT-CL (IPC): C12N 15/54; C12P 19/30; C12N 9/90; C12Q 1/48; C12N 9/12

EUR-CL (EPC): C12N009/12; C12N009/90, C12P019/30 , C12Q001/48

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	INMC	Draw Desc	Image
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☐ **12. Document ID: US 6168934 B1**

L2: Entry 12 of 18

File: DWPI

Jan 2, 2001

DERWENT-ACC-NO: 2001-122262

DERWENT-WEEK: 200113

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TITLE: Glycosylation process involves mixing activated donor monosaccharide in
aqueous medium with acceptor saccharide in presence of a catalytic amount of
glycosyltransferase which has specificity for both

INVENTOR: ICHIKAWA, Y; SHEN, G ; WONG, C

PRIORITY-DATA: 1994US-0219242 (March 29, 1994), 1991US-0670701 (March 18, 1991),
1991US-0707600 (May 30, 1991), 1991US-0738211 (July 30, 1991), 1992US-0852409
(March 16, 1992), 1995US-0472877 (June 7, 1995), 1998US-0072958 (May 5, 1998)

PATENT-FAMILY:

PUB-NO

PUB-DATE

LANGUAGE

PAGES

MAIN-IPC

US 6168934 B1

January 2, 2001

N/A

045

C12P019/18

INT-CL (IPC): C12P 19/04; C12P 19/12; C12P 19/18; C12P 19/26

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	RWMC	Draw Desc	Image
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☐ 13. Document ID: EP 1084267 A1, WO 9964618 A1, AU 9942051 A

L2: Entry 13 of 18

File: DWPI

Mar 21, 2001

DERWENT-ACC-NO: 2000-105890

DERWENT-WEEK: 200117

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TITLE: Production of ascorbic acid or esters, using microorganisms or plants which have genetic modification in enzymes involved in the ascorbic acid synthesis pathway

INVENTOR: BERRY, A; BURLINGAME, R P ; RUNNING, J A ; SEVERSON, D K

PRIORITY-DATA: 1999US-0125054 (March 18, 1999), 1998US-0088549 (June 8, 1998), 1999US-0125073 (March 17, 1999)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
EP 1084267 A1	March 21, 2001	E	000	C12P019/00
WO 9964618 A1	December 16, 1999	E	186	C12P019/00
AU 9942051 A	December 30, 1999	N/A	000	C12P019/00

INT-CL (IPC): C12N 1/12; C12N 1/20; C12N 5/00; C12N 5/04; C12P 17/04; C12P 19/00

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	RWMC	Draw Desc	Image
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☐ 14. Document ID: EP 1042486 A1, WO 9933995 A1, AU 9917752 A

L2: Entry 14 of 18

File: DWPI

Oct 11, 2000

DERWENT-ACC-NO: 1999-430245

DERWENT-WEEK: 200052

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TITLE: New isolated plant L-galactose dehydrogenase

INVENTOR: SMIRNOFF, N; WHEELER, G

PRIORITY-DATA: 1998GB-0007360 (April 7, 1998), 1997GB-0027255 (December 23, 1997), 1998GB-0007358 (April 7, 1998)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
EP 1042486 A1	October 11, 2000	E	000	C12N015/53
WO 9933995 A1	July 8, 1999	E	040	C12N015/53
AU 9917752 A	July 19, 1999	N/A	000	C12N015/53

INT-CL (IPC): A01H 5/00; C12N 9/04; C12N 15/52; C12N 15/53; C12N 15/82; C12P 17/04; C12Q 1/32; C12Q 1/68

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	RWMC	Draw Desc	Image
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☐ 15. Document ID: DE 19741375 C2, DE 19741375 A1, WO 9915674 A2, AU 9910241 A

L2: Entry 15 of 18

File: DWPI

Oct 21, 1999

DERWENT-ACC-NO: 1999-215846

DERWENT-WEEK: 199948

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TITLE: DNA encoding potato GDP-mannose pyrophosphorylase protein - and corresponding protein, antibody, transgenic plants with decreased or increased GDP-mannose pyrophosphorylase activity, etc.

INVENTOR: KELLER, R; KOSSMANN, J

PRIORITY-DATA: 1997DE-1041375 (September 19, 1997)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
DE 19741375 C2	October 21, 1999	N/A	000	A01H005/00
DE 19741375 A1	April 1, 1999	N/A	021	A01H005/00
WO 9915674 A2	April 1, 1999	G	000	C12N015/54
AU 9910241 A	April 12, 1999	N/A	000	C12N015/54

INT-CL (IPC): A01H 1/00; A01H 5/00; A01H 5/10; C07H 21/04; C07K 16/40; C12N 5/10; C12N 9/12; C12N 15/11; C12N 15/54; C12N 15/82

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 16. Document ID: JP 11500921 W, WO 9627670 A2, WO 9627670 A3, DE 19606651 A1, EP 813600 A1

L2: Entry 16 of 18

File: DWPI

Jan 26, 1999

DERWENT-ACC-NO: 1996-425430
DERWENT-WEEK: 199914
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TITLE: Microbial GDP-mannose-pyro:phosphorylase and phospho:manno:mutase - for
prodn. of GDP-mannose and for determin. of pyrophosphate-producing nucleotidyl
transferase

INVENTOR: ELLING, L; KULA, M ; RITTER, J E ; VERSECK, S

PRIORITY-DATA: 1996DE-1006651 (February 23, 1996), 1995DE-1007449 (March 3, 1995),
1995DE-1017093 (May 15, 1995)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 11500921 W	January 26, 1999	N/A	048	C12N015/09
WO 9627670 A2	September 12, 1996	G	052	C12N015/54
WO 9627670 A3	October 31, 1996	N/A	000	C12N015/54
DE 19606651 A1	December 5, 1996	N/A	028	C12N009/12
EP 813600 A1	December 29, 1997	G	000	C12N015/54

INT-CL (IPC): C12N 9/12; C12N 9/90; C12N 15/09; C12N 15/54; C12P 19/02; C12P
19/30; C12Q 1/48

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 17. Document ID: JP 07111895 A

L2: Entry 17 of 18

File: DWPI

May 2, 1995

DERWENT-ACC-NO: 1995-227256
DERWENT-WEEK: 199530
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TITLE: Glycosylation of receptor with mannosyl gp., providing recycled GDP-mannose
- comprises reaction of mannosyl-1-phosphate, mannosyl transferase and its
receptor, GDP and its mannosyl pyro:phosphorylase, phosphoric acid donor etc.

PRIORITY-DATA: 1993US-0122229 (September 15, 1993)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 07111895 A	May 2, 1995	N/A	018	C12P019/18

INT-CL (IPC): C12N 1/21; C12N 9/10; C12N 15/09; C12P 19/18; C12N 1/21; C12R 1/19;
C12N 9/10; C12R 1/19; C12N 15/09; C12R 1/865

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 18. Document ID: WO 8705937 A, NO 8704879 A, JP 01500560 W, EP 380470 A, EP
380470 B1, DE 3751066 G, NO 179875 B, US 5824472 A, CA 1340411 C, JP 2996975 B2, JP
2000032982 A, JP 3074629 B2

L2: Entry 18 of 18

File: DWPI

Oct 8, 1987

DERWENT-ACC-NO: 1987-291650
DERWENT-WEEK: 200043
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TITLE: Recombinant DNA prodn. of sugar nucleotide - by transforming host cells with portable vehicle contg. sequence expressing enzymes for product synthesis

INVENTOR: BETLACH, M R; DOHERTY, D H ; VANDERSLICE, R W ; VANDERSLIC, R W

PRIORITY-DATA: 1987US-0029091 (March 23, 1987), 1986US-0843349 (March 24, 1986), 1988US-0201261 (May 16, 1988), 1989US-0334801 (April 3, 1989), 1991US-0642552 (January 18, 1991), 1993US-0147451 (November 5, 1993), 1995US-0467145 (June 6, 1995)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
WO 8705937 A	October 8, 1987	E	045	N/A
NO 8704879 A	February 22, 1988	N/A	000	N/A
JP 01500560 W	March 1, 1989	N/A	000	N/A
EP 380470 A	August 8, 1990	N/A	000	N/A
EP 380470 B1	February 15, 1995	E	039	C12P019/02
DE 3751066 G	March 23, 1995	N/A	000	C12P019/02
NO 179875 B	September 23, 1996	N/A	000	C12N015/00
US 5824472 A	October 20, 1998	N/A	000	C12Q001/68
CA 1340411 C	March 2, 1999	N/A	000	C12N015/52
JP 2996975 B2	January 11, 2000	N/A	028	C12N015/09
JP 2000032982 A	February 2, 2000	N/A	020	C12N015/09
JP 3074629 B2	August 7, 2000	N/A	020	C12N015/09

INT-CL (IPC): C12N 1/20; C12N 1/21; C12N 7/00; C12N 15/00; C12N 15/09; C12N 15/52; C12N 15/63; C12P 19/02; C12P 19/06; C12P 19/12; C12P 19/30; C12P 21/00; C12Q 1/68; C12N 1/21; C12N 1/21; C12N 15/09; C12P 19/30; C12P 19/30; C12P 19/30; C12R 1/01; C12R 1/145; C12R 1/19; C12R 1/19; C12R 1/64; C12R 1/64; C12N 15/09; C12R 1/64; C12P 19/30; C12R 1/64; C12N 1/21; C12R 1/40; C12N 1/21; C12R 1/39; C12N 1/21; C12R 1/38; C12N 1/21; C12R 1/19; C12N 1/21; C12R 1/01; C12N 1/21; C12R 1/19; C12N 1/21; C12R 1/64; C12N 15/09; C12R 1/64

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	FWWC	Draw. Desc	Image
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Generate Collection

Term	Documents
PYROPHOSPHORYLASS\$	0
PYROPHOSPHORYLAS.DWPI,EPAB,JPAB,USPT,PGPB.	1
PYROPHOSPHORYLASE.DWPI,EPAB,JPAB,USPT,PGPB.	267
PYROPHOSPHORYLASEAND.DWPI,EPAB,JPAB,USPT,PGPB.	1
PYROPHOSPHORYLASEIN.DWPI,EPAB,JPAB,USPT,PGPB.	1
PYROPHOSPHORYLASES.DWPI,EPAB,JPAB,USPT,PGPB.	27
PYROPHOSPHORYLASE-CATALYZED.DWPI,EPAB,JPAB,USPT,PGPB.	1
PYROPHOSPHORYLASE-CONTAINING.DWPI,EPAB,JPAB,USPT,PGPB.	1
PYROPHOSPHORYLASE-EC.DWPI,EPAB,JPAB,USPT,PGPB.	2
PYROPHOSPHORYLASE-GLC2.DWPI,EPAB,JPAB,USPT,PGPB.	1
(PYROPHOSPHORYLASS\$ SAME MANNOSS\$) .USPT,PGPB,JPAB,EPAB,DWPI.	18

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Documents, starting with Document:

Display Format:

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L2: Entry 17 of 18

File: DWPI

May 2, 1995

DERWENT-ACC-NO: 1995-227256

DERWENT-WEEK: 199530

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TITLE: Glycosylation of receptor with mannosyl gp., providing recycled GDP-mannose - comprises reaction of mannosyl-1-phosphate, mannosyl transferase and its receptor, GDP and its mannosyl pyro:phosphorylase, phosphoric acid donor etc.

ABTX:

Glycosylation of a receptor with mannosyl gp. using mannosyl-1-phosphate and recycling of guanosine diphosphate (GDP) comprises: (1) forming an aq. reaction medium by mixing components (i)-(v) in an aq. medium in a single vessel; and (2) holding the aq. reaction medium at 0-40 deg. C. and pH 5-10 to cause glycosylation. Component (i) is mannosyl-1-phosphate; (ii) is GDP-mannosyl pyrophosphorylase which catalyses the formation of GDP-mannosyl from mannosyl-1-phosphate; (iii) is mannosyl transferase; (iv) is a receptor for mannosyl transferase of (iii); and (v) is (a) GDP and/or guanosine triphosphate (GTP), (b) phosphoric acid donor, and (c) GDP cyclic system which forms GTP by rearrangement of phosphate gp. from the phosphate donor to GDP. The enzymes (ii) and (iii) are used in a catalytic amount.

WEST

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Search Results - Record(s) 11 through 18 of 18 returned.☒ 11. Document ID: WO 9627670 A2

L2: Entry 11 of 18

File: EPAB

Sep 12, 1996

PUB-NO: WO009627670A2

DOCUMENT-IDENTIFIER: WO 9627670 A2

TITLE: ENZYMATIC PROCESS FOR PRODUCING GDP-ALPHA-D-MANNOSE, A GDP MANNOSE
PYROPHOSPHORYLASE AND PHOSPHOMANNOMUTASE SUITABLE FOR THAT PROCESS, THE EXTRACTION
OF THE SAID ENZYMES, AND AN ENZYME TEST

PUBN-DATE: September 12, 1996

INVENTOR-INFORMATION:

NAME

COUNTRY

RITTER, JOERG EBERHARD

DE

ELLING, LOTHAR

DE

KULA, MARIA-REGINA

DE

VERSECK, STEFAN

DE

INT-CL (IPC): C12N 15/54; C12P 19/30; C12N 9/90; C12Q 1/48; C12N 9/12

EUR-CL (EPC): C12N009/12; C12N009/90, C12P019/30 , C12Q001/48

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 12. Document ID: US 6168934 B1

L2: Entry 12 of 18

File: DWPI

Jan 2, 2001

DERWENT-ACC-NO: 2001-122262

DERWENT-WEEK: 200113

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TITLE: Glycosylation process involves mixing activated donor monosaccharide in
aqueous medium with acceptor saccharide in presence of a catalytic amount of
glycosyltransferase which has specificity for both

INVENTOR: ICHIKAWA, Y; SHEN, G ; WONG, C

PRIORITY-DATA: 1994US-0219242 (March 29, 1994), 1991US-0670701 (March 18, 1991),
1991US-0707600 (May 30, 1991), 1991US-0738211 (July 30, 1991), 1992US-0852409
(March 16, 1992), 1995US-0472877 (June 7, 1995), 1998US-0072958 (May 5, 1998)

PATENT-FAMILY:

PUB-NO

PUB-DATE

LANGUAGE

PAGES

MAIN-IPC

US 6168934 B1

January 2, 2001

N/A

045

C12P019/18

INT-CL (IPC): C12P 19/04; C12P 19/12; C12P 19/18; C12P 19/26

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 13. Document ID: EP 1084267 A1, WO 9964618 A1, AU 9942051 A

L2: Entry 13 of 18

File: DWPI

Mar 21, 2001

DERWENT-ACC-NO: 2000-105890

DERWENT-WEEK: 200117

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TITLE: Production of ascorbic acid or esters, using microorganisms or plants which have genetic modification in enzymes involved in the ascorbic acid synthesis pathway

INVENTOR: BERRY, A; BURLINGAME, R P ; RUNNING, J A ; SEVERSON, D K

PRIORITY-DATA: 1999US-0125054 (March 18, 1999), 1998US-0088549 (June 8, 1998), 1999US-0125073 (March 17, 1999)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
EP 1084267 A1	March 21, 2001	E	000	C12P019/00
WO 9964618 A1	December 16, 1999	E	186	C12P019/00
AU 9942051 A	December 30, 1999	N/A	000	C12P019/00

INT-CL (IPC): C12N 1/12; C12N 1/20; C12N 5/00; C12N 5/04; C12P 17/04; C12P 19/00

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 14. Document ID: EP 1042486 A1, WO 9933995 A1, AU 9917752 A

L2: Entry 14 of 18

File: DWPI

Oct 11, 2000

DERWENT-ACC-NO: 1999-430245

DERWENT-WEEK: 200052

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TITLE: New isolated plant L-galactose dehydrogenase

INVENTOR: SMIRNOFF, N; WHEELER, G

PRIORITY-DATA: 1998GB-0007360 (April 7, 1998), 1997GB-0027255 (December 23, 1997), 1998GB-0007358 (April 7, 1998)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
EP 1042486 A1	October 11, 2000	E	000	C12N015/53
WO 9933995 A1	July 8, 1999	E	040	C12N015/53
AU 9917752 A	July 19, 1999	N/A	000	C12N015/53

INT-CL (IPC): A01H 5/00; C12N 9/04; C12N 15/52; C12N 15/53; C12N 15/82; C12P 17/04; C12Q 1/32; C12Q 1/68

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☒ 15. Document ID: DE 19741375 C2, DE 19741375 A1, WO 9915674 A2, AU 9910241 A

L2: Entry 15 of 18

File: DWPI

Oct 21, 1999

DERWENT-ACC-NO: 1999-215846

DERWENT-WEEK: 199948

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TITLE: DNA encoding potato GDP-mannose pyrophosphorylase protein - and corresponding protein, antibody, transgenic plants with decreased or increased GDP-mannose pyrophosphorylase activity, etc.

INVENTOR: KELLER, R; KOSSMANN, J

PRIORITY-DATA: 1997DE-1041375 (September 19, 1997)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
DE 19741375 C2	October 21, 1999	N/A	000	A01H005/00
DE 19741375 A1	April 1, 1999	N/A	021	A01H005/00
WO 9915674 A2	April 1, 1999	G	000	C12N015/54
AU 9910241 A	April 12, 1999	N/A	000	C12N015/54

INT-CL (IPC): A01H 1/00; A01H 5/00; A01H 5/10; C07H 21/04; C07K 16/40; C12N 5/10; C12N 9/12; C12N 15/11; C12N 15/54; C12N 15/82

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☒ 16. Document ID: JP 11500921 W, WO 9627670 A2, WO 9627670 A3, DE 19606651 A1, EP 813600 A1

L2: Entry 16 of 18

File: DWPI

Jan 26, 1999

DERWENT-ACC-NO: 1996-425430
DERWENT-WEEK: 199914
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TITLE: Microbial GDP-mannose-pyro:phosphorylase and phospho:manno:mutase - for
prodn. of GDP-mannose and for determin. of pyrophosphate-producing nucleotidyl
transferase

INVENTOR: ELLING, L; KULA, M ; RITTER, J E ; VERSECK, S

PRIORITY-DATA: 1996DE-1006651 (February 23, 1996), 1995DE-1007449 (March 3, 1995),
1995DE-1017093 (May 15, 1995)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 11500921 W	January 26, 1999	N/A	048	C12N015/09
WO 9627670 A2	September 12, 1996	G	052	C12N015/54
WO 9627670 A3	October 31, 1996	N/A	000	C12N015/54
DE 19606651 A1	December 5, 1996	N/A	028	C12N009/12
EP 813600 A1	December 29, 1997	G	000	C12N015/54

INT-CL (IPC): C12N 9/12; C12N 9/90; C12N 15/09; C12N 15/54; C12P 19/02; C12P
19/30; C12Q 1/48

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWMC	Draw Desc	Image
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☐ 17. Document ID: JP 07111895 A

L2: Entry 17 of 18

File: DWPI

May 2, 1995

DERWENT-ACC-NO: 1995-227256
DERWENT-WEEK: 199530
COPYRIGHT 2001 DERWENT INFORMATION LTD

TITLE: Glycosylation of receptor with mannosyl gp., providing recycled GDP-mannose
- comprises reaction of mannosyl-1-phosphate, mannosyl transferase and its
receptor, GDP and its mannosyl pyro:phosphorylase, phosphoric acid donor etc.

PRIORITY-DATA: 1993US-0122229 (September 15, 1993)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 07111895 A	May 2, 1995	N/A	018	C12P019/18

INT-CL (IPC): C12N 1/21; C12N 9/10; C12N 15/09; C12P 19/18; C12N 1/21; C12R 1/19;
C12N 9/10; C12R 1/19; C12N 15/09; C12R 1/865

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWMC	Draw Desc	Image
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☐ 18. Document ID: WO 8705937 A, NO 8704879 A, JP 01500560 W, EP 380470 A, EP
380470 B1, DE 3751066 G, NO 179875 B, US 5824472 A, CA 1340411 C, JP 2996975 B2, JP
2000032982 A, JP 3074629 B2

L2: Entry 18 of 18

File: DWPI

Oct 8, 1987

DERWENT-ACC-NO: 1987-291650
DERWENT-WEEK: 200043
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TITLE: Recombinant DNA prodn. of sugar nucleotide - by transforming host cells with portable vehicle contg. sequence expressing enzymes for product synthesis

INVENTOR: BETLACH, M R; DOHERTY, D H ; VANDERSLICE, R W ; VANDERSLIC, R W

PRIORITY-DATA: 1987US-0029091 (March 23, 1987), 1986US-0843349 (March 24, 1986), 1988US-0201261 (May 16, 1988), 1989US-0334801 (April 3, 1989), 1991US-0642552 (January 18, 1991), 1993US-0147451 (November 5, 1993), 1995US-0467145 (June 6, 1995)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
WO 8705937 A	October 8, 1987	E	045	N/A
NO 8704879 A	February 22, 1988	N/A	000	N/A
JP 01500560 W	March 1, 1989	N/A	000	N/A
EP 380470 A	August 8, 1990	N/A	000	N/A
EP 380470 B1	February 15, 1995	E	039	C12P019/02
DE 3751066 G	March 23, 1995	N/A	000	C12P019/02
NO 179875 B	September 23, 1996	N/A	000	C12N015/00
US 5824472 A	October 20, 1998	N/A	000	C12Q001/68
CA 1340411 C	March 2, 1999	N/A	000	C12N015/52
JP 2996975 B2	January 11, 2000	N/A	028	C12N015/09
JP 2000032982 A	February 2, 2000	N/A	020	C12N015/09
JP 3074629 B2	August 7, 2000	N/A	020	C12N015/09

INT-CL (IPC): C12N 1/20; C12N 1/21; C12N 7/00; C12N 15/00; C12N 15/09; C12N 15/52; C12N 15/63; C12P 19/02; C12P 19/06; C12P 19/12; C12P 19/30; C12P 21/00; C12Q 1/68; C12N 1/21; C12N 1/21; C12N 15/09; C12P 19/30; C12P 19/30; C12P 19/30; C12R 1/01; C12R 1/145; C12R 1/19; C12R 1/19; C12R 1/64; C12R 1/64; C12N 15/09; C12R 1/64; C12P 19/30; C12R 1/64; C12N 1/21; C12R 1/40; C12N 1/21; C12R 1/39; C12N 1/21; C12R 1/38; C12N 1/21; C12R 1/19; C12N 1/21; C12R 1/01; C12N 1/21; C12R 1/19; C12N 1/21; C12R 1/64; C12N 15/09; C12R 1/64

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	EMC	Draw Desc	Image
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Term	Documents
PYROPHOSPHORYLASS\$	0
PYROPHOSPHORYLAS.DWPI,EPAB,JPAB,USPT,PGPB.	1
PYROPHOSPHORYLASE.DWPI,EPAB,JPAB,USPT,PGPB.	267
PYROPHOSPHORYLASEAND.DWPI,EPAB,JPAB,USPT,PGPB.	1
PYROPHOSPHORYLASEIN.DWPI,EPAB,JPAB,USPT,PGPB.	1
PYROPHOSPHORYLASES.DWPI,EPAB,JPAB,USPT,PGPB.	27
PYROPHOSPHORYLASE-CATALYZED.DWPI,EPAB,JPAB,USPT,PGPB.	1
PYROPHOSPHORYLASE-CONTAINING.DWPI,EPAB,JPAB,USPT,PGPB.	1
PYROPHOSPHORYLASE-EC.DWPI,EPAB,JPAB,USPT,PGPB.	2
PYROPHOSPHORYLASE-GLC2.DWPI,EPAB,JPAB,USPT,PGPB.	1
(PYROPHOSPHORYLASS\$ SAME MANNOSS) .USPT,PGPB,JPAB,EPAB,DWPI.	18

There are more results than shown above. Click here to view the entire set.

Documents, starting with Document:

Display Format:

WEST

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L2: Entry 1 of 18

File: USPT

Jan 2, 2001

DOCUMENT-IDENTIFIER: US 6168934 B1

TITLE: Oligosaccharide enzyme substrates and inhibitors: methods and compositions

CLPR:

10. A method of fucosylating an acceptor saccharide starting with mannose-1-phosphate comprising mixing mannose-1-phosphate, an acceptor saccharide, GTP, phosphoenolpyruvate, KCl, MgCl.sub.2, MnCl.sub.2, and catalytic amounts of pyruvate kinase, phosphoenolpyruvate kinase, inorganic pyrophosphatase, GDP-Fuc pyrophosphorylase, guanine diphosphate kinase, and a fucosyl transferase having substrate specificity for said acceptor saccharide.

CLPV:

a GDP-Fuc regenerating system that comprises GTP, phosphoenolpyruvate, mannose-1-phosphate, and catalytic amounts of guanine diphosphate kinase, phosphoenolpyruvate kinase, and GDP-Fuc pyrophosphorylase;

WEST

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L2: Entry 4 of 18

File: USPT

Mar 21, 2000

DOCUMENT-IDENTIFIER: US 6040158 A

TITLE: Process for preparing sugar nucleotide

DEPR:

Chromosomal DNA of *Escherichia coli* ATCC 4157 was prepared by the method of Saito and Miura (Biochim. Biophys. Acta., 72, 619 (1963)). By use of the obtained DNA as a template, the following two primer DNAs were synthesized in accordance with a customary method. The *Escherichia coli* GDP-mannose pyrophosphorylase (*manC*) gene (Gordon Stevenson et al., J. Bacteriol., 178, 4885 (1996)) was amplified by PCR.

DEPR:

After the cultivation, the cells were collected by centrifugation (9,000.times.g, 10 minutes) and then suspended in a buffer (60 ml) containing 50 mM Tris-hydrochloric acid (pH 7.5), 5 mM EDTA, 0.1% Triton X-100, and 0.2 mg/ml lysozyme. The suspension was maintained at 37.degree. C. for one hour and then subjected to ultrasonic treatment so as to destroy the cells. The cellular residue was removed through additional centrifugation (20,000.times.g, 10 minutes). The thus-obtained supernatant fraction was provided as an enzyme sample. The GDP-mannose pyrophosphorylase activity of the enzyme sample and that of the reference bacterium (*Escherichia coli* JM109 harboring pUC18) are shown in Table 4 below.

DEPR:

The unit GDP-mannose pyrophosphorylase activity was determined through measurement and calculation by use of the following method. An enzyme sample was added to 50 mM potassium phosphate buffer (pH 7.6) containing 1 mM magnesium chloride, 5 mM GTP, and 5 mM mannose-1-P, and the mixture was incubated at 37.degree. C. to undergo reaction. The enzyme was deactivated by thermal treatment at 100.degree. C. for five minutes. GDP-mannose in the reaction mixture was determined by HPLC, and the activity corresponding to formation of 1 .mu.mol of GDP-mannose at 37.degree. C. for one minute is defined as one unit.

DEPR:

To the above-described GDP-mannose-GTP solution (200 .mu.l) was added mannose-1-P so that the final concentration thereof became 20 mM, and GDP-mannose pyrophosphorylase was added so that the concentration thereof became 0.1 unit/ml. Water was added to the mixture so that the total volume became 400 .mu.l, and the obtained mixture was allowed to react at 37.degree. C. for eight hours. When the reaction mixture was subjected to HPLC analysis, a yield of 10.5 mM GDP-mannose was confirmed.

DEPR:

The procedures of (3) and (4) of Example 4 were performed by addition of GDP-mannose pyrophosphorylase in an amount (as enzyme unit) of 0 unit, 0.025 units, 0.05 units, or 0.1 unit, to thereby obtain GDP-mannose.

DEPL:

(1) Cloning of a Gene of *Escherichia coli* GDP-mannose Pyrophosphorylase

DEPL:

(2) Preparation of *Escherichia coli* GDP-mannose Pyrophosphorylase

DEPL:

(4) Synthesis of GDP Mannose Through Addition of GDP-mannose Pyrophosphorylase and Mannose-1-P to the GDP-mannose-GTP Solution

DETL:

TABLE 1 _____ Nucleoside diphosphate Nucle-
 sugar Sugar nucleotide otide Sugar 1-phosphate pyrophosphorylase
 _____ (1) UDP-sugar UDP-glucose UMP glucose
 1-phosphate UDP-glucose pyrophosphorylase (E.C. 2.7.7.9) UDP-galactose UMP
 galactose 1-phosphate UDP-galactose pyrophosphorylase (E.C. 2.7.7.10)
 UDP-glucuronic UMP glucuronate UDP-glucuronate acid 1-phosphate pyrophosphorylase
 (E.C. 2.7.7.44) (2) GDP-sugar GDP-mannose GMP mannose 1-phosphate GDP-mannose
pyrophosphorylase (E.C. 2.7.7.13) GDP-fucose GMP fucose 1-phosphate GDP-fucose
pyrophosphorylase (E.C. 2.7.7.30) GDP-glucose GMP glucose 1-phosphate GDP-glucose
pyrophosphorylase (E.C. 2.7.7.34) (3) ADP-sugar ADP-glucose AMP glucose
 1-phosphate ADP-glucose pyrophosphorylase (E.C. 2.7.7.27) (4) dTDP-sugar
 dTDP-glucose dAMP glucose 1-phosphate dTDP-glucose pyrophosphorylase (E.C.
 2.7.7.24) dTDP-galactose dAMP galactose dTDP galactose 1-phosphate
pyrophosphorylase (E.C. 2.7.7.32) (5) CDP-sugar CDP-glucose CMP glucose
 1-phosphate CDP glucose pyrophosphorylase (E.C. 2.7.7.33)

DETL:

TABLE 4 _____ GDP-mannose pyrophosphorylase
 activity Strain (units/mg-protein) _____
 JM109/pUC18 <0.01 JM109/pUC18-macC 0.23 _____